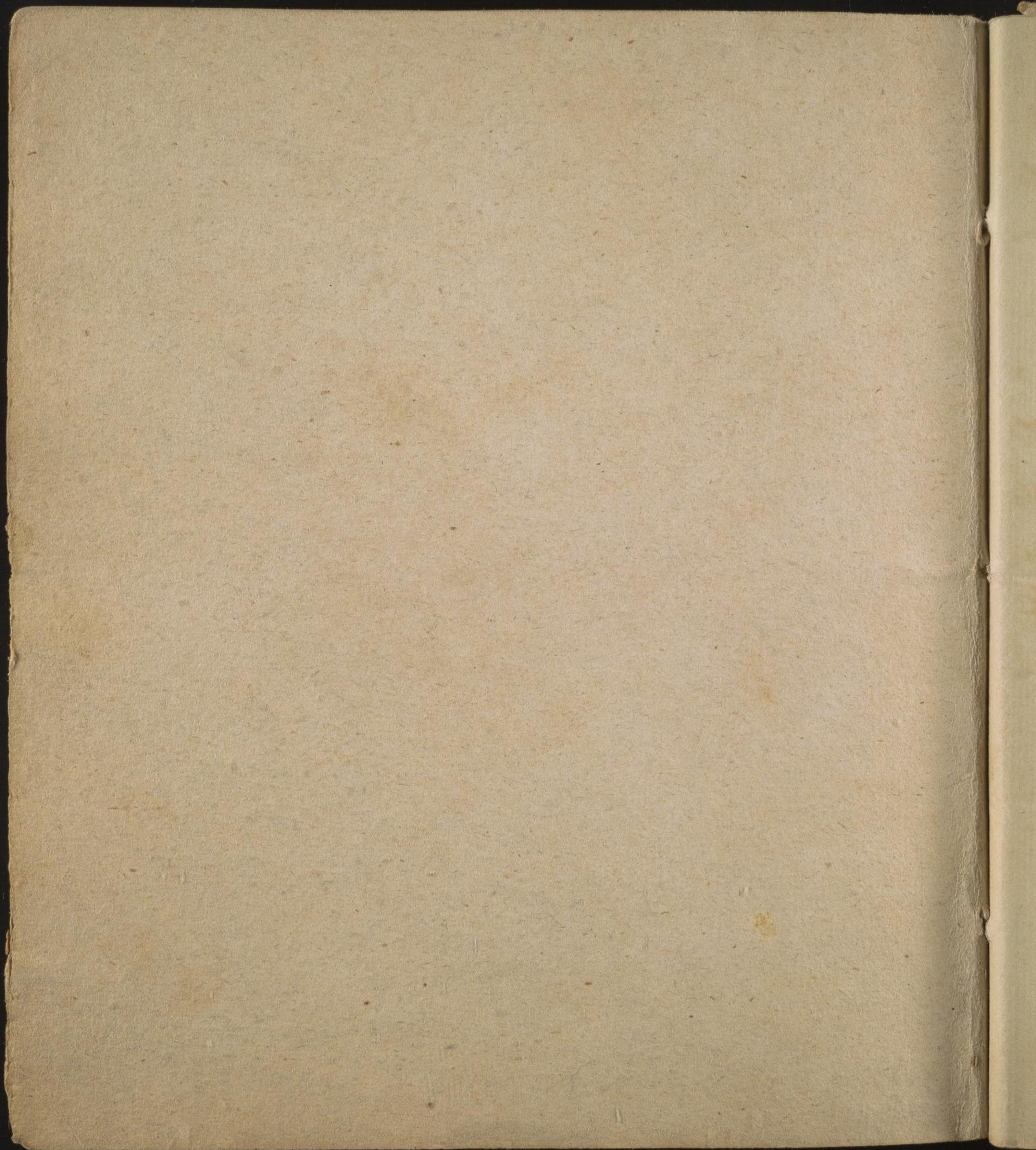


Yi 2  
7397  
F 18

19



Veneral Appetite cont: 761  
Generation & Conception 762  
Parturition 788.

¶ There is another striking beauty in  
the universal appetite in which the goodness  
& wisdom of heaven is displayed in an emi-  
nent degree. I before remarked that it is  
felt by man at every season of the year,  
and that the gratification of it is always follow-  
ed by debility; ~~and expect the fatigued~~.

~~A natural history of the world?~~

✓ ~~Human~~ This provision for continuing animal life is not confined to the human species. It extends to every class and species of animals, and ~~most~~ of them the venereal appetite acts <sup>in</sup> much more force than in man.

The ~~boar~~ horse - the bull - the Ram - and the boar all exhibit in the person of venereal marks of activity bordering upon madness. -

The amphibious animals seem to enjoy this pleasure in a higher degree than any other animals. The turtle remains in a close connection with its female for 3 or 4 days - and the

Danger of committing an excess in his indulgence of sensual pleasures - for in this case - appetite - and excitement are always combined together - whereas in a general ~~abuse~~ <sup>impulse</sup> with the sex, App-  
petite would be roused by every fresh object, without such a corresponding excitement as would enable the system to bear <sup>the</sup> effects <sup>of its</sup> gratification. =

2 In the history of generation by Dr Harvey F  
was much struck in observing that all the  
vices and all the vices discovered ~~in the~~  
sexual intercourse of the  
male and female of the human species ~~is like~~  
are discovered ~~in~~ <sup>1 of their vices</sup> by ~~different~~ different dumb  
animals. The stallion and the cock delight in  
polygamy, or a plurality of mates - the she  
wolfe admits an indefinite number of males  
to her embraces. It was upon this account  
a brothel was called in ancient Rome Lupi-  
maria. The cock commits rapes, and when  
comes his sexual appetite to such <sup>sometimes</sup> ~~degrees~~ as  
to tear the feathers & even <sup>to</sup> wound the back of  
the female by repeatedly trampling her - several  
animals of the same sex attempt unnatural con-  
nections with each other particularly cows -  
2 The vices of the sexual intercourse of the human  
species are discovered in the partridge. Each male  
confines himself to one female. The same  
takes place with the Birk & the Doe. They ~~were~~  
resemble the human species by <sup>still more</sup> ~~strong~~ taking  
place of retirement for the gratification of their

toad - not less than 8 or 9 days. To  
much does this pleasure ~~not~~ <sup>not very</sup> exceed all other  
sensation, but in the toad, that Spalanz-  
zani tells us it continues its con-  
nection with its female under the  
greatest tortures that can be inflicted  
upon its body, ~~even~~ the amputation  
of its limbs, - and finally, <sup>its some cases it</sup> parts with its  
female only with its life. <sup>The female</sup>  
~~utterly admits the unbrus of the male & even lays~~  
~~eggs after its head is cut off. Whyt p 202~~  
~~These facts quit: Tracy is a report as~~

important in morals as in science.

~~- video how ignoble must that life be  
which is devoted wholly to the pursuit of  
a pleasure which lasts and even  
toads enjoy in a higher degree of man.~~  
~~human species? man~~  
~~- it must be destined to much~~

Danger of committing an excess in his  
indulgence of sensual pleasures - for in  
this case - appetite - and excitement are  
always combined together - whereas in  
sensual appetite. Important inferences might  
be made from these facts in favor of the  
moral responsibility of and a ~~fact~~ of future  
existence of certain Devilish Animals as held  
by Dr Tildrop & Dr Priestly, and as hinted  
at by Dr Wardly.

men otherwise so many & numerous ~~they~~

toad - not up than 8 or 9 days. To  
 much does this pleasure ~~not~~ <sup>not</sup> ~~not~~ all other  
 sensations, stand in the toad, that Spalar-  
 :zani tells us it continued its con-  
 -nection with its female under the  
 greatest tortures that can be inflicted  
 upon its body, ~~even~~ the amputation  
 of its limbs, - and finally, <sup>its some cases it</sup> parts with its  
 female only with its life. <sup>The female</sup>  
~~Butterfly admits the no brains of the male & even lays~~  
~~eggs after its head is cut off. Whyt 1820~~  
~~These facts give: teach us a lesson as~~  
 important in morals as in science.  
 - ~~What~~ How ignoble must that life be  
 which is devoted wholly to the pursuit of  
 a pleasure which beasts and even  
 toads <sup>than they</sup> enjoy in a higher degree of man.  
 human species? man  
 - ~~He~~ ~~He~~ must be destined to much

P Happily for us we can do  
harm in our inquiries upon  
this subject, for if perfectly  
known, there is not a single  
useful purpose to which it could  
be applied in medicine. ~~On~~

The contrary perhaps it is would  
be to prevent its

the knowledge of it being applied to

mischievous & immoral purposes.

V - hence the silence the solitude, and  
the secrecy with which it is conducted in  
the human species, P see above.

# I mentioned formerly from J. Hunter  
an instance of the vent: <sup>tion</sup> lens being translated  
from the glands penis to the root of the penis.  
Mr. Dogege relates an ~~an~~ instance of its

more sublime enjoyments than those  
which arise from the gratification of the  
veneral appetite; - Otherwise he would  
not have been placed in the scale of  
pleasure - below the Animals which  
have been mentioned. X

¶ I conceived these Observations upon  
the veneral appetite to belong to the  
Physiological history of man. we shall  
find this application in the Pathology.

I enter upon an inquiry into the  
Cause of Generation or of the production of  
a Human Being with great diffidence. I  
Clouds & darkness have long hung over  
this mysterious operation of nature.

~~Soon~~ <sup>Soon</sup> ~~the~~ After the applica-  
tion of the microscope to anatomical

The facts I shall mention  
connected with pregnancy & parturition will be important, and I hope  
to apologise for any inability to  
satisfy you with a satisfactory  
theory of generation.

~~to whom it was  
calculated to conduce to the  
prevention & punishment of promiscuous  
intercourse of the sexes. — The same law (if revived)  
would have the happiest effects upon the order & hap-  
piness of society. Something like it, I believe, exists  
in Russia.~~  
Man was made to be happy derive hap-  
piness both from his body & mind, and in  
a future state of existence from which  
probably all inferior animals will be  
excluded. There is one more probability  
— hence the silence the solitude, and  
the secrecy with which it is conducted in  
the human species. P see above.

† I mentioned previously from I. Hunter  
an instance of the run: <sup>testis</sup> penis being translated  
from the glands penis to the root of the penis.  
Mr. Togorce relates an ~~an~~ instance of its

more sublime enjoyments than those  
which arise from the gratification of the  
veneral appetite; - Otherwise he would  
not have been placed in the scale of  
pleasure - below the Animals which  
have been mentioned. + -

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Cause of Generation or of the production of  
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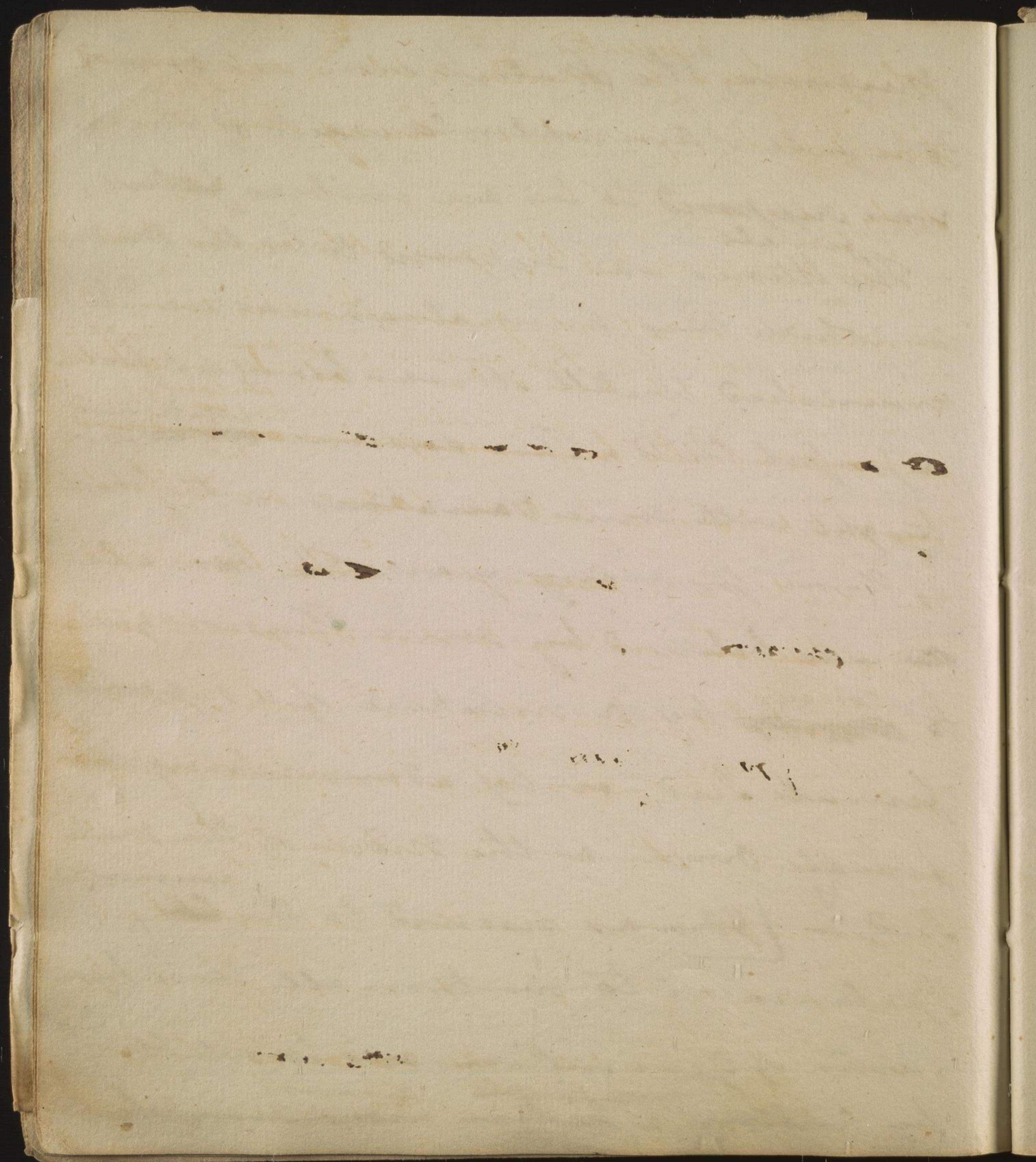
~~Soon~~ After the applica-  
tion of the microscope to anatomical

being translated to the palms of the hands in  
a young man at Lyons. — He felt a burning  
sensation <sup>in that</sup> at the sight of a woman, and by rubbing his  
hands together, he felt faint'd with a voluptuous sense. —  
The existence of animalculæ in the  
seed is still admitted. They the fermen is  
their element, and they soon perish in  
any other fluid. They have no mode of  
reproducing themselves that we know  
of, and they have no influence on  
the fermen in imparting to it its  
fecundating stimulus. For this discovery  
we are indebted to Spalanzani, who  
has added a theory to it

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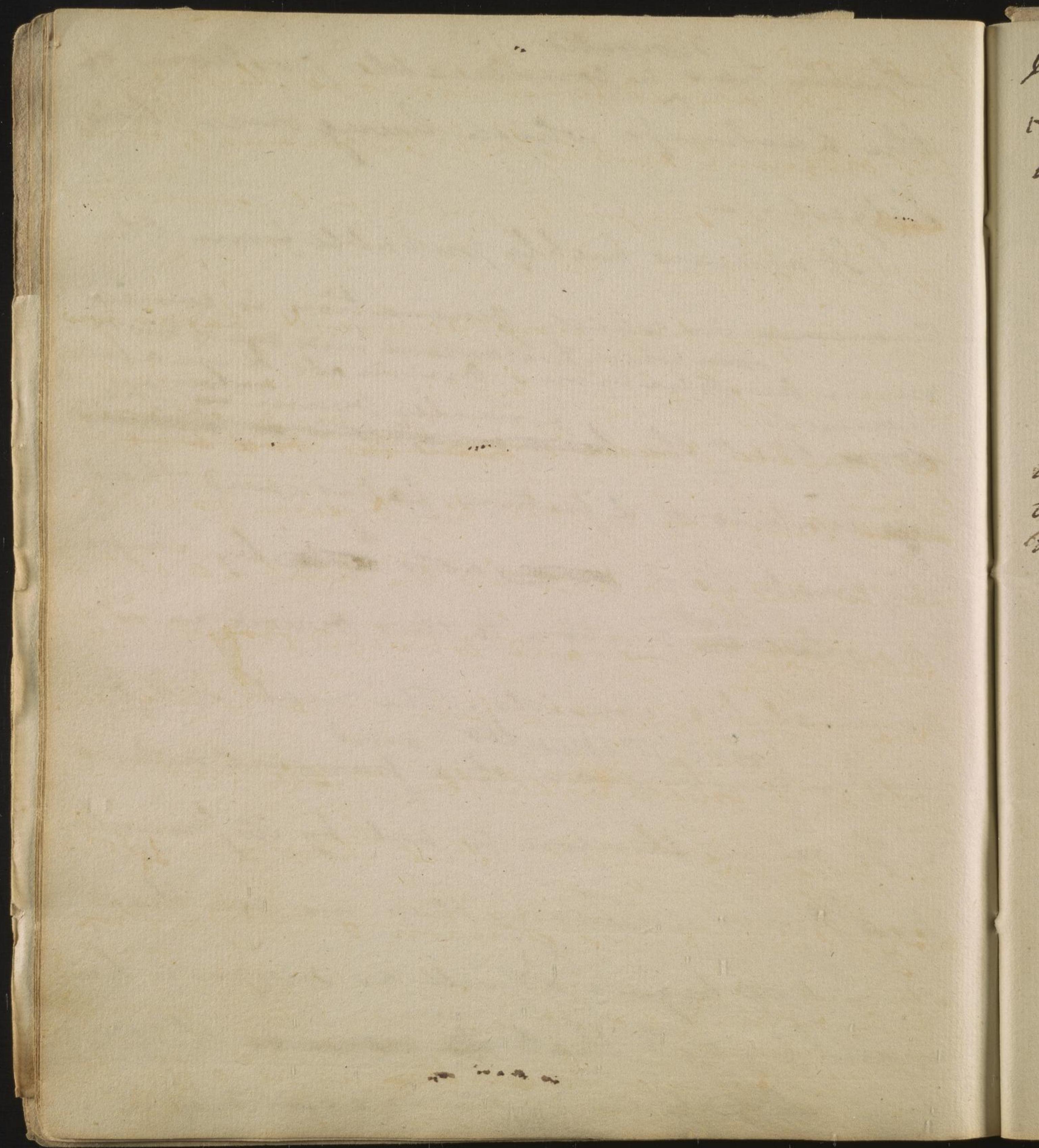
purposes, the Milk-Tower was found  
to be full of animalcula - each of which  
was supposed to be an embryo fetus,  
female

- The Uterus was supposed to be the matrix  
in which this animalcule was reared  
nourished until it was brought forth  
a perfect Child. This doctrine ~~was~~ <sup>continued</sup> to be  
taught with some variations in the schools  
of Physic for many years. The female  
~~was~~ was believed by some Physiologists  
to ~~concur~~ <sup>concur</sup> by a mixture of a supposed  
female seed, - or by administering ~~the~~ <sup>a</sup>  
female humor as the mucus of the male  
seed. - ~~It~~ <sup>V</sup> was reserved to the ~~Ch~~ <sup>immortal</sup>  
Spalanzani to overturn all these hy-  
-potheses of Generation, and to establish  
by analogy a <sup>more simple</sup> <sup>discovery</sup> ~~more exact~~



which has a considerable portion of  
the darkness which hangs over this  
subject. —

It appears highly probable from the  
manners in which generation is carried  
upon which Dr. Alansani made one of his ex-  
periment in Amorphous animals & in a little  
that the ~~female~~ <sup>contains the</sup> ~~female~~ ovum ~~is produced~~  
embryo of a future fetus, and that  
the male seed ~~acts~~ acts ~~by~~ by im-  
-iting ~~that~~ <sup>that</sup> motion to this ovum in w:  
animal life consists. The male seed <sup>from Mr Hunter</sup> and  
said formerly was of a pungent nature.  
— It seems therefore to act by its stimula-  
-ting power. — From this we see that  
Stimulus begins, as well as supports hu-  
-man life, and that ~~it~~ <sup>is</sup> the first  
motion of life in man is excited by it.



In a word -

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He is awakened from his long sleep in  
his original embryo state, by means of ~~force~~  
~~which~~ <sup>that</sup> supports every subsequent part  
of his existence. —

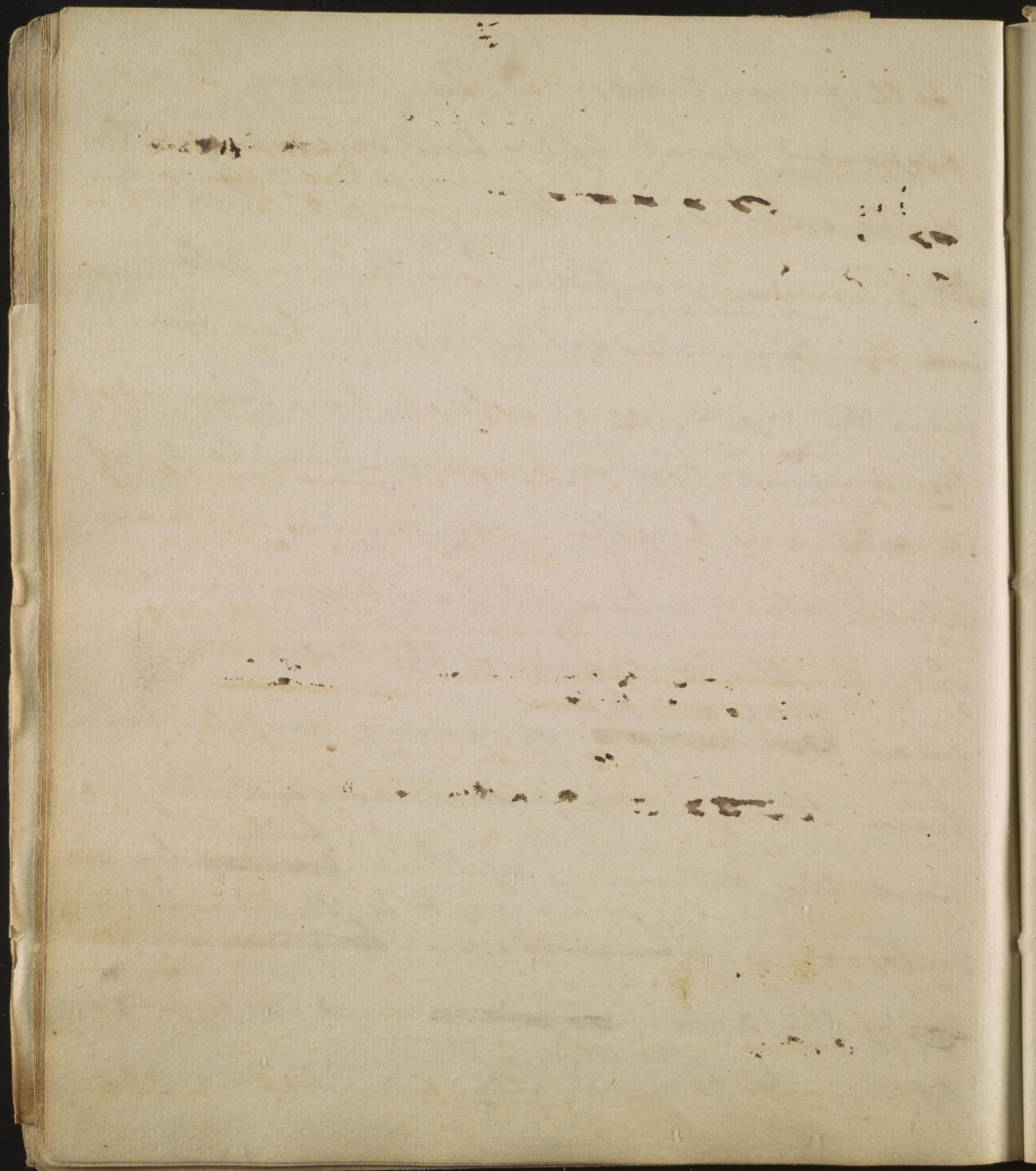
A question now occurs, & that is how  
is the male Semen brought in contact with  
the female Ovum? ~~the common reply~~  
to this

~~question~~ Question is that the Ovum is carried  
in the Act of Copition by the fibres of the  
fallopiian tube and conveyed from the  
ovarium thro' the tube into the uterus,  
where it meets with the male seed, & is  
impregnated by it, - But there are ~~4~~ solid  
objections to this solution of the question.

1 a factor has sometimes been found  
in the Ovaria ~~fructus~~ as also in the

✓ I know a Student of Physic in Edin<sup>r</sup>.  
who was called upon to marry a ~~girl~~<sup>✓</sup>  
whom he was engaged, in consequence of  
her having become suddenly pregnant, who  
told me that he had never had such a  
connection with her as had ~~ever~~<sup>a noted midwife in London</sup> injured the  
badge of Virginity - and Dr Lawd<sup>r</sup> has ~~done~~<sup>r</sup>  
and that he had once delivered a woman  
in whom he found upon attempting to  
introduce his fingers into the Vagina - the  
Hymen still inviolate. — Dr Johnson in  
his Midwifery relates several cases of the  
same kind. — But Dr Harvey goes further.  
He mentions an instance of a mare that  
~~had been mated to it to effect~~  
had been mated to prevent her breeding,  
that notwithstanding her pregnant. the  
exterior of the Vagina were burst by the passage  
of the Colt into the world. —

fallopian tubes - 2<sup>o</sup> The Uterus has  
 appeared closed after Coition so perfectly  
 as to exclude the admission of the seed.  
~~#3~~ Impregnation has taken place  
 wh in cases where the Lumen has been  
 omitted by a process which has been reduced  
 by Amputation or mortification to  $\frac{1}{4}$  of  
 its ordinary length - very more, it has  
 taken place in here it has been omitted  
 only in the entrance of the Vagina - to the  
 great <sup>guif and shame</sup> of young people who  
 have thought by these means to pre-  
 vent the discovery of this <sup>folly</sup> ~~secret~~ by the  
 subsequent pregnancy. ~~to prevent for~~  
~~#4~~ of the ovum ~~expel~~ and its passage  
 into the Uterus  
 afterwards is generally ascribed to the



energy of the sexual organs in women,  
often ~~feebled~~ sometimes  
but this energy I believe is often ~~lost~~ lost  
in ~~habit~~ ~~from~~ ~~accident~~ affection  
from women - who notwithstanding be-  
ing ~~an~~ unwilling to do so  
- come pregnant from a venereal connection.

— To account for the Union of the male  
Jed with the female Brine under all  
these unfavourable circumstances, I  
shall first relate one of Spallanzani's  
experiments. — He found that three grains  
~~of a toad~~  
of seed ~~mixed with~~ ~~in~~ ~~in~~ ~~in~~ ~~in~~ in-  
- pasted such a fecundating quality to a  
~~second~~ ~~the~~ ~~the~~ ~~the~~ ~~the~~ ~~the~~ ~~the~~  
pint of water, that a single drop of it  
afterwards impregnated the ova of a  
female toad. Now, — may not the male  
Jed ~~also~~ whether deposited in the uterus  
- in the vagina, - or only at the mouth

by lymphatics  
~~lymphatics~~ which possess a  
specific power of absorbing semen only  
and which are excited by the sensation  
of pleasure connected with coition. <sup>2</sup>  
~~Should it be that Banting had it~~  
~~feeling that should it~~

Mr Dr. Winter has proposed another  
theory - turn over to V.

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of the vagina be absorbed ~~and by the~~  
& conveyed directly to the ~~uterus~~ ~~ovary~~ ~~ovary~~  
~~uterus~~ - ~~and~~ ~~the~~ ~~ovary~~

~~With this theory should be associated~~  
~~another & another~~  
He has asserted that all the ~~passages~~ from the body have a motion in them, analogous to the peristaltic motion of the bowels, by which they gradually under certain circumstances <sup>gradually under certain circumstances</sup> propel their contents out of the body. - This is evident in a gonometer - ~~in the windpipe~~  
~~bowels~~ - and in some diseases of the lungs - in which there is a constant discharge of mucus from the trachea.

The menses are probably discharged from the Uterus to Vagina by a peristaltic motion in each of them - But as in the bowels, so in some of the ~~passages~~ of the body there is an inversion of this peristaltic motion. - we observe it in the Oesophagus

by the male seed, and that it exerts no action upon any other part of the system. - hence no inconvenience is felt from it in unfruitful connections - and in these connections the absorption must necessarily be the same as in those which prove fruitful.

Now more happens here that what happens in many poisons which after circulating in the blood act specifically upon certain parts of the body. But why mention the analogy of poisons?

A single grain of  $\text{S}$  after circulating for several days in the system has excited a salivation by its specific stimulus on the salivary glands.

A several circumstances affect

inviting the case of Cardiogia Sputatoria.  
In like manner - may not the Vagina  
- the uterus - & the fallopian tubes be  
activated by this inverted peristaltic  
motion, and thus propell the seed  
into the ovaria? - This <sup>theory</sup> ~~is~~  
will account for the pregnancy taking  
place under the unfavorable circumstances  
before mentioned, but as the inverted  
peristaltic motion of the ~~Vagina~~ passages  
into the ovaria - has <sup>been inferred, only</sup> ~~been inferred~~  
from analogy, the ~~above~~ <sup>opinion</sup> being built  
upon ~~it is in my opinion~~ <sup>turn over to pg 80</sup> more hypothetical than  
that first taught by Dr Harvey ~~and developed~~

+ The <sup>former</sup> was but proved in many cases,  
but lately in a remarkable manner at  
Port Jackson in Botany Bay where a Dr  
Tarris informed Dr Weyl formerly of  
this University that several barren  
women had become pregnant im-  
mediately after their arrival in that  
country and bore several children.

and bore several children.

One of them was an old  
prostitute of over 70 years of age.

This is the case of a change of climate refers to other  
islands. Rev Dr M'Carly in his history

of St Kilda says that there when but  
to that Island from the neighbouring

Islands always breed the year after  
-wards. again a student of med. in 1816 informed me that  
3 Women from both Carib. visited  
a few months at warm springs of big  
a lessation of pleasure is necessary to  
render a annual connection fruitful, and  
it is because this lessation is in a great

the fixity of the ~~ova~~ to the walls  
 leads - the issue of a venereal connection  
 with respect to its becoming fruitful -  
 such as the ~~power~~ <sup>the power</sup> inversion of the peristaltic motion  
 of the Vagina - Uterus - & Fallopian tubes if it occurs, - or  
~~admitting~~ powers of the lymphatic vessels  
 of the Vagina, - and the ~~constant~~ <sup>admitting</sup> healthy  
 State of the ovaria, - The two last are  
 greatly influenced by a peculiar state  
 of ~~visiblity~~ <sup>female</sup> in the system - hence we  
 find corruption to be most certain,  
 immediately before - or after menstruation  
 - after a fit of sickness & after long ab-  
 sence - ~~and~~ after the action of fresh stimuli  
 upon the system by a woman's  
 visiting a foreign Country & <sup>particularly a malignant fever,</sup>  
 and after using the warm bath, <sup>+</sup>  
~~no woman does this unless~~ <sup>at the very spring of</sup> males bid ad-

in ~~the~~ the case of Cardialgia Sputatoria.  
In like manner - men not the ~~very~~  
or perhaps totally  
deprived, that prostitutes so rarely have  
children. This ~~less~~ absence of pleasure  
has been acknowledged by them. <sup>It</sup> ~~also~~  
falls one of the ~~causes~~ of impotency formerly  
mentioned. —

That

The Semen comes in contact with the

the fixability of the ~~two~~ ~~two~~ males  
 leads - the issue of a menstrual connection  
 with respect to its bearing fruitful,  
~~the~~ <sup>the</sup> inversion of the peristaltic motion  
 such as the activity of the male seed - the  
 of the Vagina - Uterus - & Fallopian tubes if it occurs, - or  
 aborting powers of the lymphatic vessels  
 of the Vagina, - and the ~~and~~ <sup>and</sup> healthy  
~~ovaries~~  
 State of the ovaria, - The two last are  
 greatly influenced by a peculiar state  
 of excitability in the <sup>female</sup> system - hence we  
 find conception to be most certain,  
 immediately before - or after menstruation  
 - after a fit of sickness & after long ab-  
 sence - ~~and~~ after the action of fresh stimuli  
 upon the system by a woman's  
 visiting a foreign country & ~~and~~ <sup>at the beginning of</sup> ~~and~~  
 this woman does the male seed act

Dream : Thalaparvami - tried whether  
a volatile principle would not have  
that effect emitted from it, but to  
purpose.

¶ a third theory has been pro-  
posed to account for Conception by Dr Haughton  
and that is that it is the effect of sympathy  
~~of a specific nature~~  
whether ~~see in~~ ~~Uterus of a woman~~ or ~~Yagina acts~~  
~~see R~~ ~~on~~ ~~the female ovum~~  
of a specific nature. He supposes that the male seed  
in the same manner that certain substances  
taken into the ~~body~~ stomach affect parts of the  
body remote from it without ~~the~~ contact,  
& that the stomach is affected by certain  
substances applied to the skin which are  
absorbed, and that do not enter into the  
circulation. This opinion is ~~refuted by an~~  
~~experiment of Gafanianji~~. He proved that  
no impregnation took place unless the semen came  
in contact with the ovum. Even the vapor of

upon the female <sup>780</sup> Ovum that it is torn  
from the Ovarium, and conveyed qua-  
-lally, thro' the Fallopian tube into the

Uterus. — The nausea - the disposition

to faint - the Obstruction of the menses -  
the tense pulse - the dry blood - the dry skin - high cold urine  
- the pains in the teeth are all the effects  
which follow - the yellow & black spots - exquisitely sensible  
of a new and peculiar sensibility in the  
part of the system. One hundred analogies

~~of~~ of similar, & even greater sensations  
in the system might be mentioned from  
the Action of certain local chemical &  
mechanical stimuli. Besides the common

Symptoms of ~~Conception~~ which have been  
mentioned, I shall mention ~~two~~ <sup>several others</sup>,  
one of which occurred under my

own Observation. A Lady in this city  
during what is called her breeding season,

~~He however did not~~ ~~when applied to~~ ~~a~~ ~~inflammation~~  
~~inflammation~~ ~~upon~~  
the whole I am disposed to believe Dr. ~~Henry~~  
~~Opinion~~ ~~the most probable of any that~~  
~~by dyspepsia either directly or indirectly, and the~~  
~~same began long before~~ ~~return to p. 1768~~  
~~it was being acted upon specifically by it. Galters~~  
~~& F. D. Whyt relates a case in which preg-~~  
nancy discovered itself by a distaste to  
snuff. Her relish for it returned as soon  
as she was delivered.

Dr. McDowell mentions an instance of a  
fatuity occurring as the first sign of  
conception of pregnancy.

Dr. Dwyer informed me that he knew  
a lady in whom a relish for a particular  
kind of aliment which she ~~cannot eat~~  
at any other time marks the certainty  
of conception.

~~I know~~ ~~woman~~ ~~for~~ ~~the~~ ~~whole~~ ~~course~~ ~~of~~ ~~her~~  
~~pregnancy~~ ~~without~~ ~~a~~ ~~symptom~~ ~~of~~ ~~burden~~ ~~which~~  
~~of any kind.~~ ~~This is a rare occurrence.~~ ~~—~~  
~~as all midwives do not~~ ~~781~~ ~~Henry~~  
~~knows~~ ~~it returned after delivery~~  
~~The final cause of this the languor~~  
want of appetite which attend the  
first months of pregnancy, Dr. Hunter  
used to say was to guard the system  
against <sup>inflammatory</sup> ~~inflammation~~ diseases  
always predisposed from the stimulus  
of the fetus more especially in its  
forming state. may be relied —

I have known two instances in this  
city of conception &c without the least  
sickness during the whole course of pregnan-  
cy. most of ~~the~~ the symptoms of conception which  
have been mentioned cease after the 3<sup>rd</sup> month,  
but ~~most~~ ~~they~~ are often followed after <sup>the</sup> <sup>time over</sup>  
time by many other of a distressing nature =  
Galters ~~mention~~ ~~of~~ ~~fatuity as signs of pregnancy~~

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the sensor - did not induce inspiration when applied to  
the drum. It is reported further by an experim-  
~~ent~~ ~~upon~~ ~~the~~ ~~subject~~ ~~of~~ ~~D~~ ~~Hastings~~ ~~ignorance~~  
of Dr. Hess; of many land who prevented inspiration  
~~I shall~~ ~~conclude~~ ~~but~~ ~~it~~ ~~is~~ ~~a~~ ~~fashion~~  
~~in a horse by cutting off the following tubes. This~~  
~~is no~~ ~~theory~~ ~~as~~ ~~well~~ ~~as~~ ~~in~~ ~~horses~~ ~~and~~ ~~that~~ ~~it~~ ~~is~~  
now had previously tried ~~physiology~~ ~~several~~ ~~letters~~ ~~of~~  
~~two~~ ~~concerning~~ ~~in~~ ~~accordance~~ ~~to~~ ~~push~~ ~~a~~ ~~principle~~  
~~ling~~ ~~now~~ ~~entitled~~ ~~pigs~~ ~~-~~ ~~Upon~~ ~~the~~ ~~subject~~ ~~of~~ ~~D~~ ~~H~~  
~~beyond~~ ~~the~~ ~~natural~~ ~~limits~~ ~~of~~ ~~life~~ ~~of~~ ~~them~~ ~~. Thus~~  
~~animal~~ ~~and~~ ~~abilities~~ ~~-~~ ~~oxygen~~ ~~-~~ ~~galvanism~~  
~~that~~ ~~for~~ ~~a~~ ~~white~~ ~~cow~~ ~~all~~ ~~the~~ ~~phenomena~~ ~~of~~  
~~life~~ ~~and~~ ~~diseases~~ ~~-~~ ~~as~~ ~~seen~~ ~~in~~ ~~them~~ ~~I~~ ~~shall~~ ~~only~~ ~~mention~~  
to ascribe to one cause that which shd. be  
ascribed to more than one or two, also but one  
effect from a cause which produces a greater  
number of effects. This mode of reasoning has done  
great harm in medicine. ~~I~~ ~~did~~ ~~not~~ ~~mention~~ ~~in~~ ~~the~~ ~~animal~~  
of ~~it~~. Sympathy has taken the place of electric  
oxygen - galvanism in explaining the phenomena  
of the human body. From the manner in w.  
certain medicines operate ~~we~~ ~~know~~ it has been  
extended improperly to all medicines. In like manner  
from the influence of sympathy in explaining some  
of the functions of the body, it is extended to them  
all, and most erroneously perhaps to account for ~~years~~  
~~1878~~ ~~depressions~~ ~~of~~ ~~the~~ ~~system~~  
but ~~most~~ ~~of~~ ~~them~~ ~~are~~ ~~often~~ ~~followed~~ ~~after~~ ~~some~~  
time by many other of a ~~dis~~ ~~keep~~ <sup>time over</sup> ~~nature~~ =  
~~mention~~  
~~such~~ ~~diseases~~ ~~as~~ ~~of~~ ~~domestic~~ ~~fatality~~ ~~as~~ ~~signs~~ ~~of~~ ~~proximity~~

has in two instances of pregnancy had  
 colds & induced by a ~~glowing heat~~  
 a ~~violent fit, and a~~ <sup>of cold water</sup> ~~glowing heat~~  
 for an hour or two every day one or  
 of her legs. - ~~He~~ <sup>of cold water</sup> ~~is~~  
~~to Dr. Harle.~~ <sup>in England</sup> ~~He~~  
 a woman in Newcastle, ~~she~~ always  
 knew the exact time when she conceiv-  
 ed, by feeling a sudden & unaccountable  
 passion to steal every thing that came  
 in her way. 3 Where pregnancy occurs while women  
 give birth, it is sometimes discovered by the children refusing  
 to suckle or becoming chilly & irritable on the breast. -  
 indistinct. How long the time is before the  
 Ova - sp. - <sup>to K</sup>  
~~begin~~ impregnated ovum remains in  
 the ovarium, or what time it takes  
 to pass ~~out of~~ this the full ovum  
 times cannot be ascertained by any  
 dissections that have been made. The  
 whole business of conception I believe

upon the ~~to take~~ I have ~~delivered~~ a review of all the  
theories I have delivered, I am ~~no~~ have  
no hesitation in admitting that con-  
ception depends upon the nerves  
being conveyed either directly or by  
indirectly by ~~the absorption~~  
means of the ~~absorption~~ ~~apparatus~~ to the Uterus,

to the ~~uterus~~ the female Organ  
in the Ovaria, which according to D' Harvey  
possess the same ~~sensitivity~~ to its stimulus  
while the brain properes to those  
stimuli which produce sensation and  
thought. — return to p: 768 A

V4 Dr Dugay mentions an instance  
of women who never sweated but on  
one side of her body. No sooner did  
she become pregnant, than she sweat app:  
on both her  
a case in <sup>the</sup> w:  
sweats on one  
side of pregnancy.

Opposite  
side  
years

Sickness, tension  
- such as occurs in the abdomen & spine in  
- the back & head a full & long pulse - thirst - heat  
of the skin - <sup>hæmorrhage</sup> Costiveness - Impression, or  
involuntary flow of urine - Jaundice <sup>toothache</sup> & now  
& then swollen legs. From a careful view of  
all these symptoms, I have been led to  
consider the female body as in a diseased  
state from the beginning of conception to  
to the period of delivery. This disease partakes  
of many of the symptoms of fever, & is re-  
lieved by the remedies used for fevers from  
Other causes. But its effects moreover upon  
the uterus are the same, as the effects of disease  
are,  
when it appears in the form of Inflamm<sup>n</sup>: ~~as~~  
upon other parts of the body. It enlarges it  
according to Dr<sup>r</sup> Hunter to 50 times its natu-  
-ral dimensions. Inflamm<sup>n</sup>: has <sup>markedly</sup> the same  
effects upon other viscera - particularly the  
limbs & the ~~liver~~ <sup>liver</sup> This swelling of the uterus  
~~is cured by the same~~  
remedy after Child birth, that cures other

to be performed in the Ovarium. ~~the~~  
 The impregnated Ova seem to be con-  
 -nected into the Uterus only to be nourish-  
 -ed. The Ovarium, <sup>therefore</sup> may be compared to  
 a hot bed, in which the first life is im-  
 -panted to the seed of a plant, <sup>while</sup> the Uterus  
 may be considered as a large green  
house in which the same seed is after-  
 -wards transplanted, and sheltered from  
 the weather until it has <sup>grown to</sup> ~~ripened~~  
 such a size as to bear the action of  
 the external ~~dry~~ air upon it. —

I have hitherto called the maledict  
 a Stimulus only. But it is a stimulus  
 of a peculiar kind. If a scented liquor  
 it is true, but it seems to be formed not  
 only from ~~distilling~~ the fluid sent from

swellings from inflammation viz: bloodletting.  
The leeches ~~consuming~~<sup>are</sup> the blood which is gradually  
discharged for this purpose. - return to 781 R

V The same reasons account for the  
delay of the ~~formation~~<sup>evolution</sup> of the ovaria,  
& the production of the ova in females  
at until the age of puberty.

E But another solution is given of the  
cause why children resemble their parents, &  
that is their having them constantly before their  
eyes. It is certain the inhabitants of  
towns villages, & whole countries have a  
general resemblance to each other from the  
above cause. But the resemblance of child<sup>ren</sup>  
to their parents is often perceived at birth,  
before they see their eyes or foreheads are  
so far opened as to know them. Bastards  
are said to bear the greatest resemblance to

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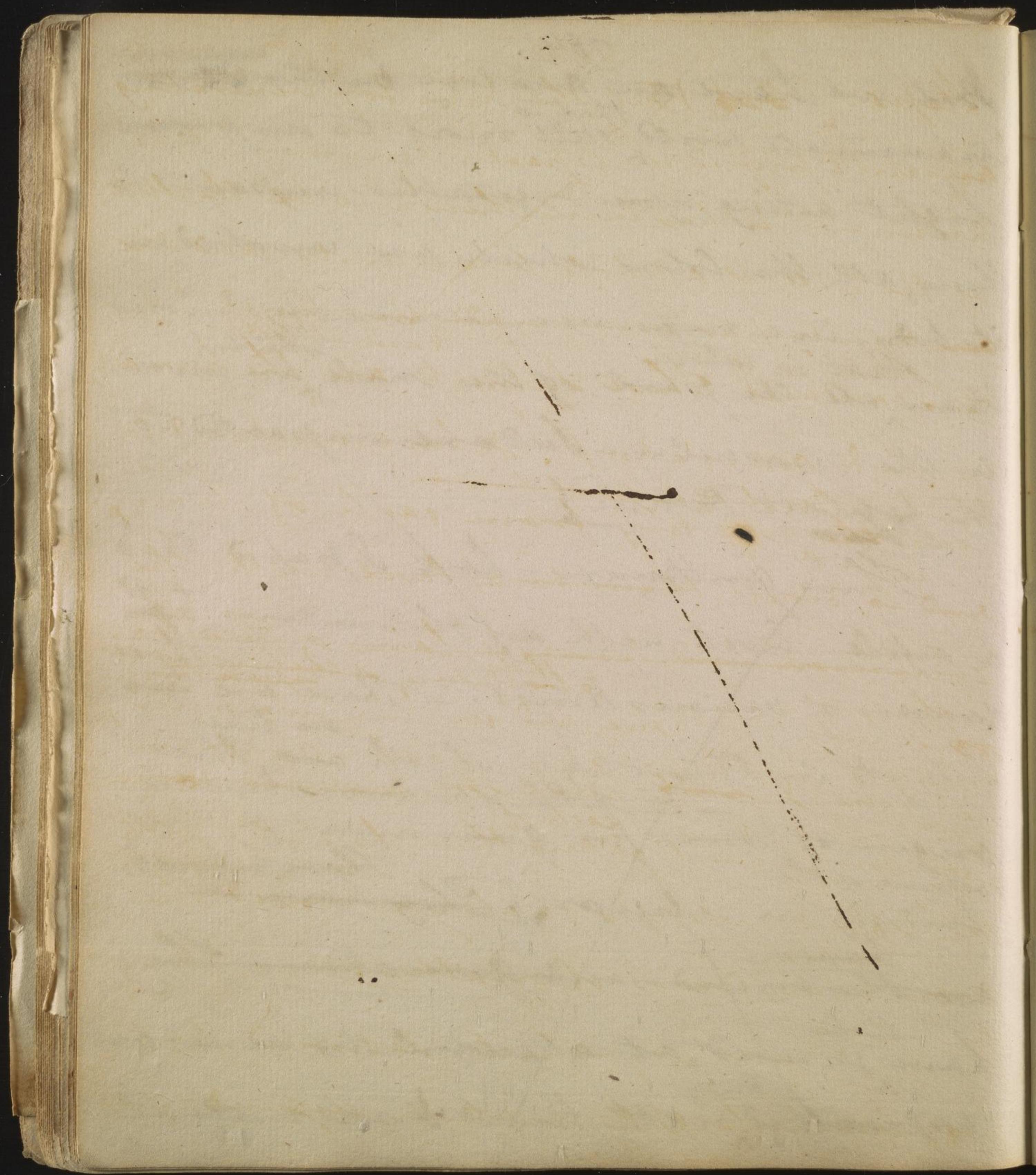
the solids, & not - only from the body but  
the mind of man, - and this I take to be  
the reason why it is not formed untill  
the body has acquired its full growth, &  
this is the reason likewise  
why I formerly supposed the change <sup>in</sup> of the  
~~body~~ <sup>of</sup> to at puberty to influence the deve-  
lopment of the seed. ~~that~~

[as every part of the body acts it were  
claims its proportion of matter to form the  
limbs, it is no wonder that we find  
children resemble the male as well as  
the female parent. No more happens  
here, than what happens in many cases  
of impression upon the body from other  
stimuli. - A stroke with the open  
hand on the tender flesh of a child produ-  
ces <sup>4</sup> as obvious marks of every finger:

their parents, especially their fathers.]

But we have an analogy in the ~~material~~<sup>immaterial</sup> world, that is still more to our purpose. Light acting upon vegetables imparts to them, all the colors which are involved in its body, in a manner no more mysterious than all the parts of the male <sup>which</sup> are involved in the masculine seed are imparted to the female ovum] —

~~This Gentleman - have I passed this a defile - beset with dif. obstructions and dangers of various kinds. - There are two subjects in Physiolog. which are like the action of the will in Morals - origin of power in Government & the doctrine of the Trinity in religion. They are like the asp. and generation. They have riuped at a awful distance, or only approached with timid & reverential~~



Steps. - But the time for venerating ancient prejudices is past. Government like animal life has been shown to be the effect of the wills of a whole community, and the ~~contingency~~ has been ~~reduced~~ <sup>Animal life -</sup> to the standard these subjects are the human mind, & generation. I have ventured to ~~tear the veil of <sup>and</sup> competition~~ & ~~tear the mystery from each of them~~ & ~~and to <sup>and</sup> add to a book with the common and known laws of matter.~~ ~~into their nature, of each of them,~~ ~~If I have not succeeded in my inquiries,~~ ~~I hope I shall have <sup>laid a foundation</sup> for your investigating them here after, with the same boldness that you would the common laws of matter.~~

I am so perfectly satisfied that the business of generation depends upon

V ~~Dr~~ D'Amours (a French physician) has  
broken the ground upon this subject. ~~He~~  
~~has~~ It has long been observed that  
Bastards possess an uncommon portion of  
mind. The Dr ascribes this to the mind of  
the father being more highly excited by the  
contrivance & execution of his stratagems for  
the seduction of innocence, & by the mind of  
the woman when pregnant, being equally  
excited by contriving schemes to elude the disgrace  
& censures induced by her prostitution. We  
shall have no difficulty in admitting  
this portion of the question, if we admit  
the mind to be material, or the result of  
organization, ~~or~~ to club its proportion  
towards the formation of a child. It has  
~~It has uniformly been unanswerable that~~  
brothers contribute more towards the

principles obviously mechanical, &c:  
 I have no doubt but the time will come  
 when it will be <sup>as</sup> possible to tell ~~from~~  
~~the~~ ~~most~~ ~~delicate~~ ~~examination~~, what  
 portions of beauty & understanding will  
 be the consequence of the union of persons  
 of certain qualities of body & mind in  
 matrimony; as it is now is, to tell what  
 will be the result of the mixture of  
 certain simple substances in chemistry.

- Our ignorance upon this subject arises  
 wholly from a want of ~~power~~ <sup>of the</sup> observation.] ✓

Agradably to our syllabus I thd.  
 next have proposed to treat of the gradual  
 formation <sup>of the</sup> ~~of~~ nourishment <sup>of the</sup> circu-  
 lation of the blood in the <sup>of the</sup> feet in the  
 womb, but you will  
 hear each of these subjects discussed

formation of Genius or mind than fathers. I have  
observed it in 9 out of 10 families of children, &  
would only observe upon the  
subject of the nutrition of the fetus,  
that Dr. Darwin has lately revived  
the old doctrine of its being carried on  
by means of the liquor amni. He  
supposes further that the ~~the~~ fetus is  
carried to the ~~the~~ fetus by the  
umbilical cord, not to nourish it,  
but simply to supply its blood  
with oxygen.

True it is - "Sensus sequitur, sequitur  
suum". There is scarcely a history of a  
man much distinguished for talents  
or virtue, that had not a ~~transible~~  
or pious mother.

Upon the Subjects of Generality

in the most ample manner from  
the anatomical chair. V

The ordinary period of pregnancy is  
nine months - but to this there are  
some exceptions. - Books of medicine  
mention 13 ~~months~~ & 5 months as  
the two extremes of natural ~~gestation~~<sup>pregnancy</sup>.  
Dr Harvey records several cases of Un-  
equinoctial births at the end of six  
months in which the children have  
survived their native freshness. It is  
of consequence to know these facts, as  
by this means  
we may in some instances presume the  
name of familiis & even the order of  
society. Dr Harvey mentions a case of a <sup>child</sup> born  
in the 5<sup>th</sup> month, that lived to be 12 years old. -  
The history of extrauterine con-  
ceptions, also of Superfetation belongs

✓ Before I conclude this subject I have to remark that the presence of the hymen is supposed to indicate the want of innocence ~~in~~ ignorance, & its absence, a want of vice in a young woman. But the latter is not universally true. It is sometimes absent naturally, & frequently destroyed by falls - by rapid walking - by the disease, particularly by the leprosy, which is <sup>often</sup> attended with a humor so corrosive as to inflame & erode it. It is removed in some instances provided <sup>again</sup> coitus does not take place soon afterwards. <sup>applicable to Jurisprudence</sup> but the humor has a hymen.

to pathology. —

at the close of natural pregnancy,  
the fetus makes efforts to escape from  
its place of confinement by altering the  
direction of its head. Many ~~reasons~~<sup>reasons</sup> have  
been ~~given~~ for the commencement  
of child birth. One of them certainly  
is the efforts of the child to open a passage  
for itself into the air. Perhaps the ~~thrusts~~<sup>thrusts</sup>  
of the mother are produced only by the  
irritation of the head of the child upon  
the mouth of the womb. These thrusts  
are connected with such extreme  
pain as sometimes to induce syncope  
& death. ~~so as to sustain the organs~~  
~~with a due degree of tension~~ A certain  
degree of pain is supposed to be nes-  
carily

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connected with childbearing. It is  
true - it was the curse pronounced  
upon the first female progenitor of the  
human race, After she had disobeyed  
her Mother, but it is equally true,  
that man was condemned, to earn his  
bread with the sweat of his brow, and  
yet many thousands of the human  
race from the efforts of human ingenuity,  
or from the natural fertility of some  
countries, live without labor, and of  
course escape the curse pronounced upon  
our male progenitor. I do not think  
there is an unchangeable & necessary  
connection between pain & childbearing.  
In some countries in Africa, & <sup>& South America,</sup> the

The Turkish women take sweet oil  
for some months before delivery to lessen  
the pains of childbearing. It can act only  
as a by inducing debility as an emulant.  
a few discharges her egg with signs of pleasure.

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travellers tell us that women bring  
forth children without pain. Buzdome  
says that ~~throughout~~ the women in  
Sicily suffer scarcely any pain in  
childbearing, and a man midwife of  
extensive experience from St. Kitts  
informed me that the women in  
the west Indies bring forth children  
with much less pain ~~than~~ than is felt  
by the women of more northern coun-  
tries.

I have so frequently heard  
the pains of childbearing to be <sup>much mitigated</sup> ~~reduced~~  
by bloodletting a few days before  
delivery, & I have uniformly found  
delicate & sickly women to have the  
easiest labors. — Do not these facts

These gentlemen were my opinions  
thus cautiously delivered <sup>in the year 1795.</sup>  
~~in 1803~~

~~But~~ But I no longer ~~do~~ deliver them  
as Conjectures. From my own observations,  
and from the experience of many prac-  
titioners of midwifry, I am now satisfied  
that the pains of parturition are as  
much a disease as a plenisy & folie,  
& that ~~they are~~ <sup>they are</sup> to be relieved by the same  
remedies ~~to remove this disease~~. <sup>The chief of these is =</sup> pain from  
all this other causes. I shall mention  
those Remedies hereafter. In the mean  
while you may see the facts I have  
collected, & my reasonings upon this  
subject <sup>in number of</sup> in the Medical Repository pub-  
lished in Aug<sup>r</sup> 1803. ~~in~~ <sup>in</sup> order to D  
Bloodletting <sup>793</sup>  
~~Spasmodic acts by inducing~~  
the Delight of abstraction,  
and thus relaxing the system, so to favour

suggest to us that it is as possible by the efforts of human genius to alleviate the ~~pain~~ <sup>pain</sup> of childbearing inflicted upon

women, as it has been for human  
industry to obviate this by agriculture

the curse inflicted upon the earth.

no  
= Bloodletting. ~~No~~ ~~method~~ ~~so~~ efficacy has  
= It was introduced into this City & it  
= ~~was~~ ~~soon~~ ~~establis~~ ~~lished~~ ~~not~~ ~~only~~  
= ~~among~~ ~~by~~ ~~300~~ ~~years~~ ~~of~~ ~~its~~ ~~long~~ ~~speci~~ ~~men~~  
= ~~is~~ ~~still~~ ~~in~~ ~~use~~ ~~at~~ ~~all~~ ~~it~~ ~~is~~ ~~now~~  
= ~~now~~ ~~in~~ ~~the~~ ~~place~~ ~~that~~ ~~it~~ ~~was~~  
= ~~to~~ ~~the~~ ~~discovery~~ ~~of~~ ~~300~~ ~~years~~ ~~ago~~ ~~made~~ ~~by~~ ~~Dr~~ ~~Hamilton~~  
of Gen<sup>o</sup>. ~~and~~ and is it prescribed even the midwives in  
Genoa. ~~is still~~ It is called for more than [says Dr  
Boyle of Leghorn from whom I rec<sup>d</sup> the information]  
from the peculiar dryness of the air, & the inflam-  
type of all the diseases of that city. ~~to~~ The  
discovery of this remedy to use the words of  
Dr Shipp <sup>"</sup> marks an era in the  
history of midwifery" ~~in~~

paroxysm, but the same effects have been produced by large doses of Opium, - by the

convulsions of Epilepsy, & lastly by a fit of Drunkenness. All these act by inducing such a degree of ~~dis~~<sup>Dysruption</sup> ~~indirect~~<sup>direct</sup> irritability as to suspend sensibility, with but without impairing ~~the~~ irritability, or the power of motions in ~~the~~ fibres those parts of the body which exclude the fatigued Per-

- haps they encourage them. You may my opinions & resolutions, & supported by many more facts than I have mentioned, in the <sup>4th</sup> vol. Repository of New York for Aug<sup>1</sup> 1801. turn over to of my Inquiries. (A) p: 743 0

~~over~~, now of no  
pain altogether, and thereby recall the curse inflicted upon woman after her fall from innocence in the garden of Delir. one important

of opium would be as would kill  
 the system into a paroxysm of universal  
 indirect debility. <sup>But whether</sup> ~~it is~~ <sup>or</sup> ~~not~~ <sup>of</sup> ~~opium~~  
~~that~~ <sup>or</sup> ~~opium~~ <sup>20</sup> ~~is~~ <sup>used</sup>  
 or not in obviating <sup>still</sup> the pain of childbearing, ~~but~~ I have no  
 doubt, but the time ~~when~~ will come  
 when this pain will be as certainly,  
 & as originally prevented as imitated  
 as a fit of the colic. ~~or~~ <sup>or</sup> ~~transfers~~  
~~to~~ <sup>1793</sup>

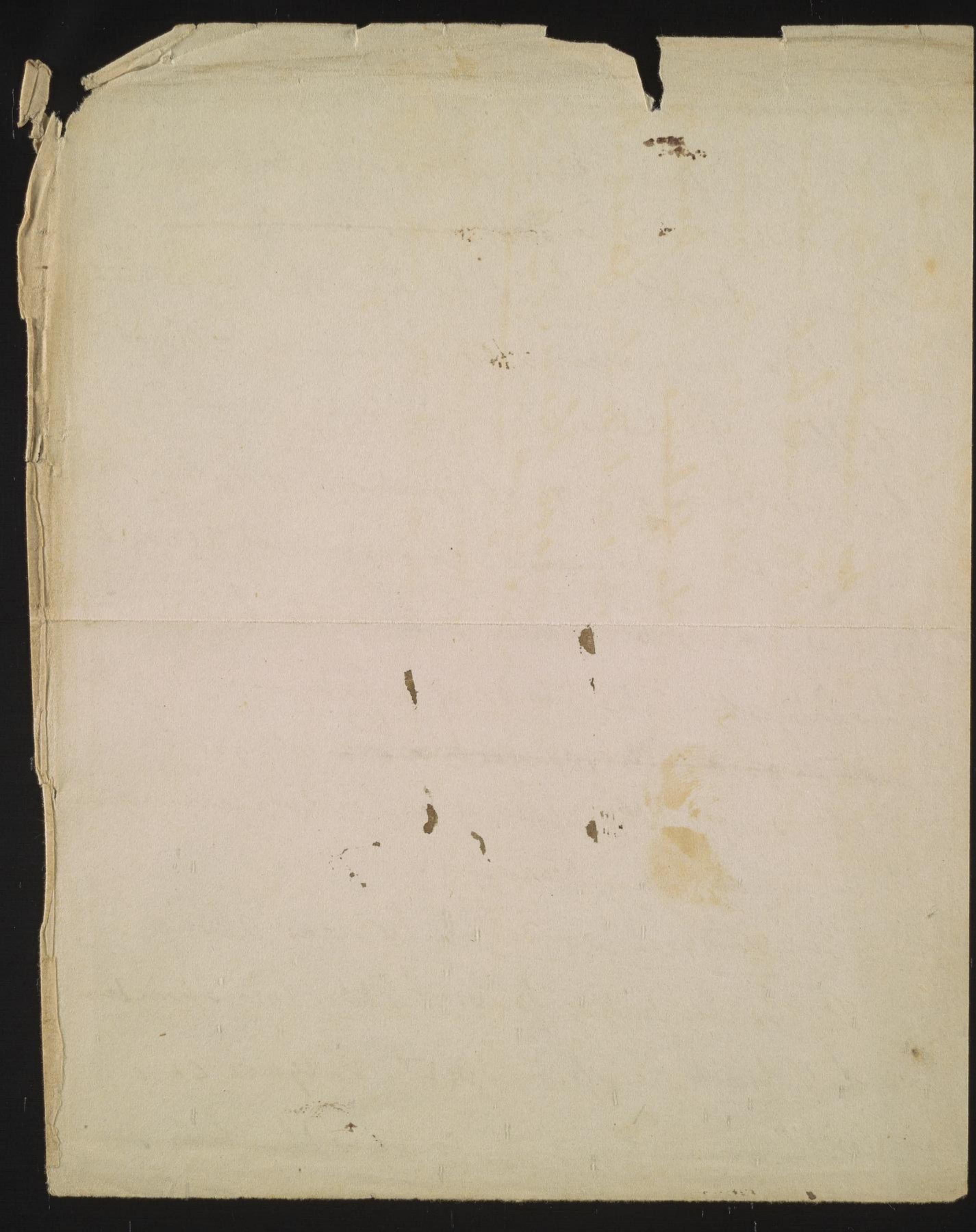
The next article in our syllabus  
 is the different stages of life. I have spoken  
 of one of them viz: of Infancy. Each of  
 the others will come in more properly  
 when I come to treat of the Diseases  
 of the different stages of life. —

~~From a visit to the Hospital of~~

It would an act of ingratitude to dismiss  
the subject of Generation without acknowledging  
our obligations to ~~Dr~~ Dr  
Haller for the light he has shed upon it  
by his numerous experiments & observations.  
To this illustrious physician we are indebted  
for dissipating a great portion of the darkness  
in which the indolence & ignorance of ages. did  
by the errors of Galen & Aristotle had involved  
this subject. The words of a contemporary poet  
~~introduces~~ <sup>Dr</sup> physician  
shall supply the place of an exegiun upon  
him upon this occasion.

"Live modern wonder;" & be read alone.

"Thy brain hath issue, tho thy loins have none.  
"Let fruit Scropions, be the vulgar's care,  
"Great generations Self, is now thy heir.



~~fact upon this subject. A lady from Hall  
who had been subject to Epileptic fits,  
was delivered in one of them. Upon  
her recovery from her fit, she declared  
she had felt no pain, and was much  
astonished. to see a Child, <sup>that had been</sup> taken from  
her lying by her side.~~ —

Q. There is but one question connected with  
the history of the fetuses in utero that I shall  
take notice of in this place, & that is the  
origin of marks upon children. They have  
been ascribed to the imagination - but this  
is unphilosophical. mention Dr Hunter & Dr  
McLanlay's fact. The system more plethora in  
pregnancy than at any other time - & such  
effusions as favor ~~marks~~ <sup>are</sup> more apt to  
take place then than in any other state  
of the system. <sup>Of these are communicated to the</sup> Return to p. 792 #  
fetuses.

The analysis of the ~~solids & fluids~~ of the body has been ~~given~~ <sup>given</sup> ~~taken~~ at already in speaking of the blood, & of the secretions & excretions. It will be improper to speak of the artificial analysis of the fluids or solids. Until we have first traced the effects of disease & death upon them in our pathology we have thus agreeably to our syllabus taken a view of the functions of the human body - and of the faculties & operations of the human mind for the easy and pleasant <sup>of the body</sup> ~~action~~ <sup>these functions and</sup> ~~of the mind~~ consists that inestimable blessing we call Health. ~~Health~~ or in other words, in Health is that state of the

¶ Before we take leave of the human body in its healthy state, it will be necessary to take notice of two opinions that have prevailed in with respect to the means of preserving health and it for this state for ever, or for a number of years far beyond ~~to~~ the present duration of human life. The possibility of producing perpetual existence in our world ~~by~~ has been held by some writers. Dr Price once thought it possible. <sup>Certain improvements in</sup> ~~I Physicall~~ <sup>said</sup> philosophy were to be the means of producing this earthly immortality. I need not spend a moment in exposing the error of this opinion.

~~forwold as thou art~~ "Dust thou art, and unto dust, shall thou return" is <sup>the</sup> ~~an~~ universal, & necessary law, <sup>from</sup> to which there can be no ~~special~~ <sup>no</sup> protection inflicted upon man from which there can be no respite. Death is the natural we live by force,

System in which the its excitement,  
& excitability, are in an exact ratio to  
each other, and both equally diffused  
tho' every part of the body & mind. This  
definition of health admits of a considerable  
latitude - It excludes strength as an in-  
gredient in health. - ~~An citizen~~ <sup>obliviate</sup> ~~an~~ who  
cannot bear the <sup>action</sup> heat of the sun for a  
single hour upon his body, and a  
dogged peasant who can work a whole  
summer ~~without~~ <sup>in full</sup> exposed to its  
burning rays without inconvenience,  
may both be in equally good health,  
- for in both, the excitement & excitab.<sup>y</sup>  
of their systems are in an exact ratio  
to each other. ~~for the present~~  
Here - then we <sup>Gent.</sup> take our  
~~quit the human~~

Death is our natural state. ~~But~~ <sup>A</sup> Opinion has  
been formed by physicians such as were deluded by the ~~magical~~  
~~physicians~~ <sup>such as were deluded by the</sup> ~~magical~~  
particular by the Alchemists  
is that  
~~have thought~~ it possible to protract life to  
the Antebibian Age, by certain medicines,  
as modes of living. Paracelsus ~~had~~ was  
the father of this opinion. ~~He invented~~  
~~many medicines~~ The liquor called his  
Proprietatis diversus its name from its  
being supposed to possess a power to prolong  
life. Many <sup>absurd</sup> ~~remedies~~ <sup>remedies</sup> ~~remedies~~ <sup>absurd</sup> have  
been recommended for that purpose, such  
as U. in the Spring of the year, & the  
transfusion of the blood of young animals  
into old ones, ~~and~~ They have both been  
tried often, but without effect. The  
~~latter~~ <sup>former</sup> was practised, & is  
still popular in Germany, - the other  
was tried above a century ago, in

last pleasant view of the body of man.  
 we have beheld him with his form erect,  
 his face ruddy, - his eyes sparkling with  
 health, - his bones full of marrow; - his  
 muscles filled with blood; - his lungs in  
 perfect unison with external & internal  
 impressions; - and his body in unison <sup>th</sup> with  
 every faculty of his mind. ~~Has he not~~  
~~displayed~~ ~~his~~ ~~body~~ ~~in~~ ~~many~~ ~~different~~  
~~situations~~. — In a retrospect of this  
 curious and beautiful object  
~~object which he has displayed~~ I feel as if  
 I were gazing for the last time upon a  
 splendid & venerable palace, which was  
 destined to speedy destruction by the hand of  
 time or  
 war, for hereafter we must consider the

France where it was laid aside in consequence of its producing insanity ~~but~~ <sup>so far as</sup> ~~it~~ <sup>1798</sup> but used occasionally with more sleep than either of the two. Still I believe it's possible for man to commit that have been named, but without the effect ~~caused~~ from it, attains to a much greater age than is now common in the world. ~~probable~~ to the ~~Antediluvian~~ age. The effects of the ~~in removing~~ system to ~~remove~~ the teeth, and the eyesight, & the occasional return of the menses in old women, clearly prove the body to possess a ~~secret~~ <sup>latent</sup> or latent maps of exit and ~~entry~~ <sup>which</sup> may be called both, & the present stock used with so much ~~read~~ economy in a future and happier state of human affairs, ~~the~~ and thereby life be protracted as to produce something like the Antediluvian age. The means for this purpose will be physical. Revelation favours this opinion. One of the ~~the~~ <sup>the</sup> prophets ~~script~~ alludes to

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body and mind of man as exposed from  
a thousand remote & exciting causes to  
pain, - disease, - deformity & death. To enum-  
erate these causes, and to explain the  
nature of those morbid & distressing pheno-  
mena which are produced by ~~by~~ them is  
the business of Pathology, and this ~~is the~~  
~~will succeed a few remarks upon w. is called~~  
~~Hygiene - or the means of preserving health.~~

~~go to p. 660 789~~ Dr  
— The same fate has awaited all the boasted  
means of ~~clinging~~ ~~depth~~ depth. Line (says  
a celebrated fund. writer of merit) is as ~~as~~  
eternal in performing the business of destruction,  
as nature is in the business of ~~destruction~~ creation:  
nor can an anchor ever be cast into the river  
of life so as to arrest for a moment our passage  
down its ever flowing stream. The common

it when he says man shall plant vineyards,  
and eat the fruit of them a man shall  
die a boy at a 100 years old & that is, ~~see~~  
his 100<sup>th</sup> year shall be composed with the  
age to which men shall then attain the  
same as 10<sup>th</sup> years now ~~is~~ composed with  
the present duration of human life.

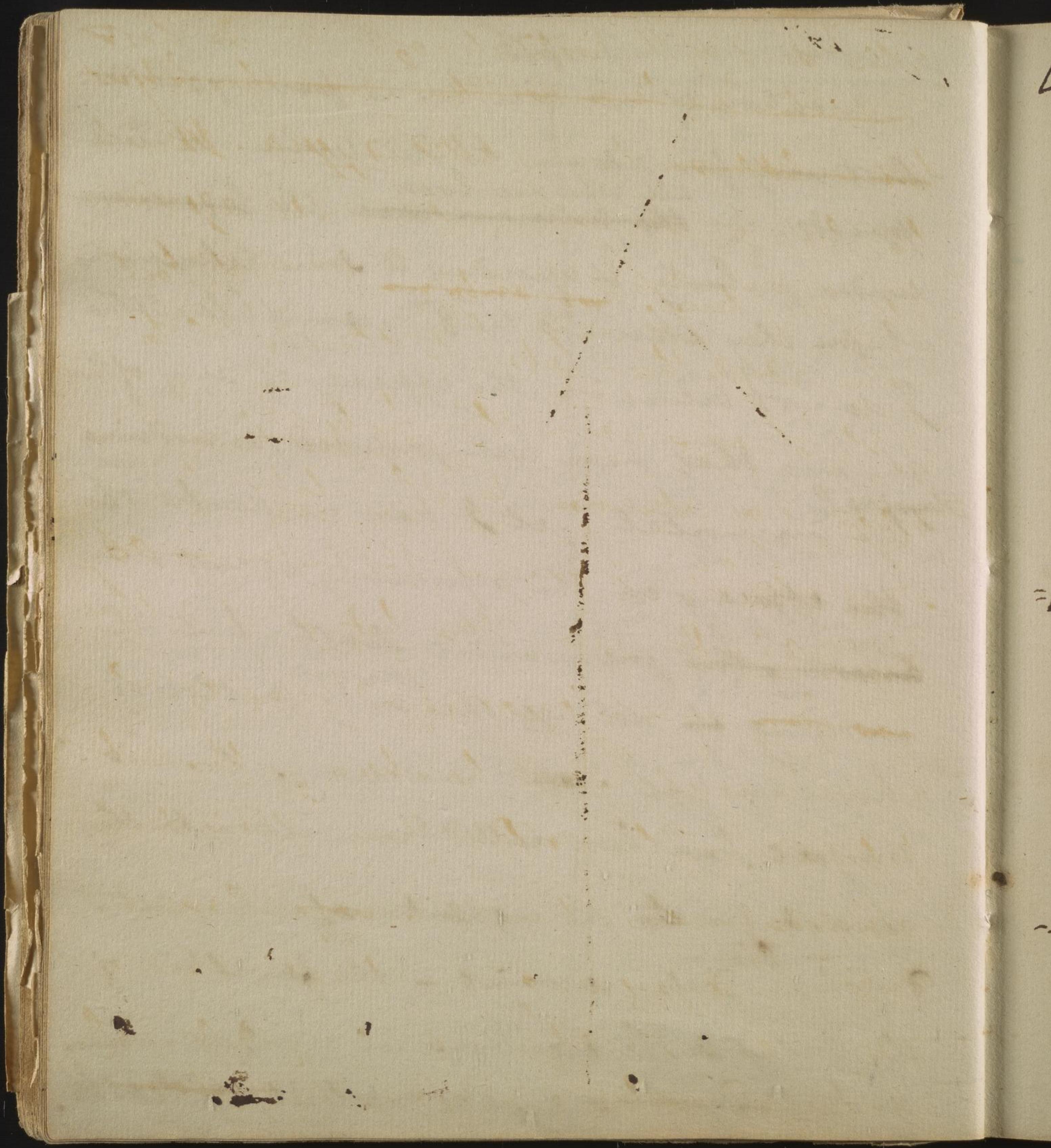
~~#~~ The means of producing this longevity  
will be physical - rational, & moral.

The changes in the earth by cultivation  
will dry up all the present sources of  
putrid exhalation, - while religion &  
religion shall teach men to avoid all  
the ~~un~~ <sup>un</sup> & existing  
causes of disease from  
heat, cold - errors in diet & dress, and the  
unhealthy influence of the passions upon  
the body and mind.

~~return to 0/1748.~~

duration of human life is from 70 to 100.

- But very few attain to the former of those periods.  $\frac{1}{2}$  ~~all who are born~~ die before they under puberty, & according to some calculations before they attain to the 8<sup>th</sup> year of life. Altho' I do not believe in the efficacy of any of the means that have been proposed for rendering physical life immortal, yet I have no doubt of the efficacy of the possibility of not only preventing ~~an~~ premature death, but of rendering in old age the <sup>principal</sup> outlet of human life. The means for this purpose have been called <sup>more</sup> natural - they consist in ~~the~~ the regulation of Aliments - <sup>Air</sup> Drinks - Dress - exercise - the faculties of the mind & the exertions in such a manner as to prevent & ensure perpetuity of Health.



This part of the Institutes of Medicine has  
much ~~been written upon this subject~~  
~~but to little purpose~~ been called Hygia. Much  
has been written upon it in all ages in  
all countries, ~~not only~~ even the Poets  
have added their ~~labors~~ to those of Philosophers  
& Physicians upon this subject. Even  
a want of attention to the relative circum-  
stances which influence the influence of  
air - air & upon the body & mind, there  
~~has been~~ much error, and that of a  
mischievous nature has been published  
believed in the world. These relative cir-  
-stances are 1 Climate, ~~very~~ season.  
2 Different degrees of civilization. Very  
different kind of aliment, & very differently  
prepared - also very different portions

5 The assimilating power of man to  
circumstances, w<sup>t</sup> that offensive things  
become not only insipid, but  
agreeable from repetition from one  
of the laws of habit. —

different degrees of exercise, & temperature  
of air ~~do~~ <sup>are</sup> in progress in all the grades of  
society from that of the savage to the highest  
degree of civilization. The same thing may  
be said of <sup>by</sup> 3 employments. A farmer - a  
soldier & sailor require a different mode  
of life from a ~~mercantile~~ person who lives  
in the enjoyment of the luxuries of a city  
life. Persons of different ages & of the two  
sexes; and lastly, the variety of temperament  
have been called <sup>predispositions or other</sup> 5 types;  
all require ~~with~~ a considerable latitude  
in the use of the means for preserving  
health. I shall confine the remarks I  
am about to ~~be~~ deliver to the citizens  
of the ~~United~~ our own country. You  
all know the nature of our climate

I cannot take leave of this part of  
our course without troubling you  
upon you to enquire the difficulty  
I found in answering a question pro-  
posed to me by enquiry of you & that  
was what book you should read  
upon Physiology. You will now  
perceive that the system I have taught  
is not to be found in Brodoo & he differs  
in all its from all the systems that  
ever have been published. ~~It is animal~~  
The Doctrine of animal <sup>life</sup> which I have  
delivered, ~~and~~ has animated nearly every  
function which I have described. ~~the~~  
The new ~~the~~ <sup>the</sup> explanations I have  
given of the ~~the~~ <sup>the</sup> theory of the operations

and the degrees of inspiration & the employments of our citizens. When they differ in age, it will be easy to apply the general principles to each of them.

I shall begin with Aliment, & drinkes <sup>and</sup> & then  
mention & communicate its kinds, the best  
modes of preparing them & the proportion  
& manner of using them. got N<sup>o</sup> 15  
p 585 X

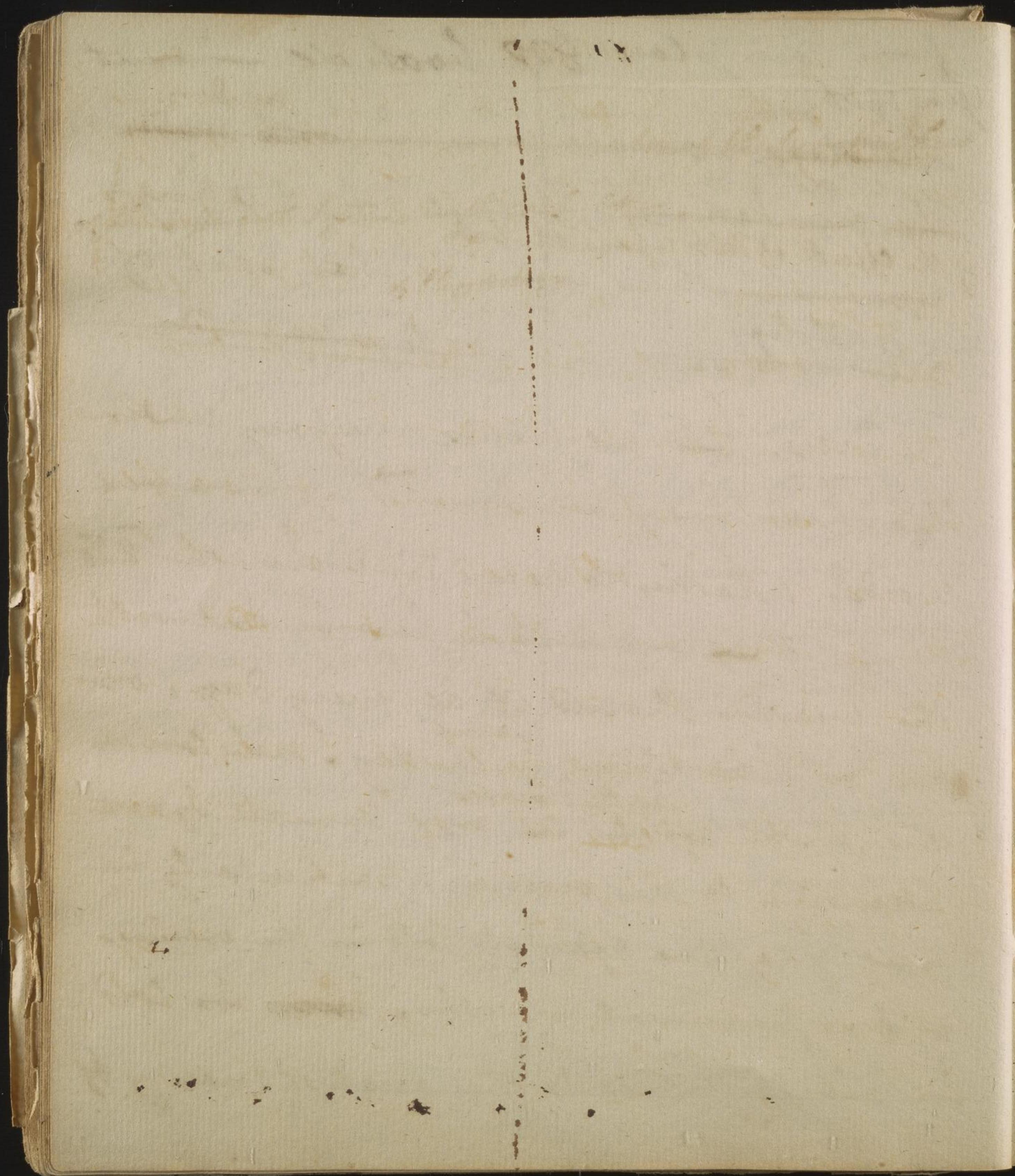
# Having thus treated of the Aliments &  
Drinks as far as they contribute to health  
& longevity, I proceed to make a few remarks  
upon the other ~~and~~ circumstances <sup>which</sup> are  
connected with the same objects, but they  
2 of ~~the~~ <sup>and</sup> ~~and~~ of the relative effects of air  
upon the body, I shall speak on our  
visiting in our houses &c

of the mind & of the ~~several~~ offices of  
the Spleen, <sup>operation</sup> Liver, & <sup>also of their sympathies</sup> Lungs & Heart, have  
of the different systems with each other, —  
added still further to the diversity of  
my <sup>System of Physiology</sup> ~~exposition~~ from those which are  
to be found in books, & that are taught  
in other Universities. I do not say my  
opinions upon these functions of those parts  
They are true — but I will say I  
believe them <sup>to be true</sup> & that <sup>they</sup> have revolutionized  
my principles of practice in pathology  
— Therapeutics & the practice of medicine.  
— As several of the Gent: who compose  
this class did not hear ~~many~~ the lectures upon  
animal life, I shall deliver a summary  
of them in a few words. —

from your place 800 books - next  
year 1806 as they  
~~Pathology~~ will all come in ~~under~~ under

~~the~~ ~~over~~ ~~Pathology~~; I shall defer treating  
of the effects of air upon the body  
~~upon them till come to that part of~~  
~~Pathology~~  
~~over course~~ ~~go to p 793~~

3 Dres. ~~the~~ all that is necessary under  
this head may be summed up in a few  
words. I rather to exceed in warmth. 2 To  
change it ~~is~~ not with the season - but with  
the weather should it be every day, or  
two or three times <sup>same</sup> in the day. new comers  
are most affected <sup>by the discases</sup> in our climate by not  
attending to this practice, particularly in  
not guarding against Cold in the evenings  
of our autumnal months. ~~Good~~ for cold  
in all countries is the greatest enemy of



the health of life of man. The same remark applies to bed cloths, as to dress. They should be accommodated to the changes in the weather.

3 Cloaths when wetted should never be suffered to dry upon the body. Few constitutions are strong eno to resist disease from this cause.

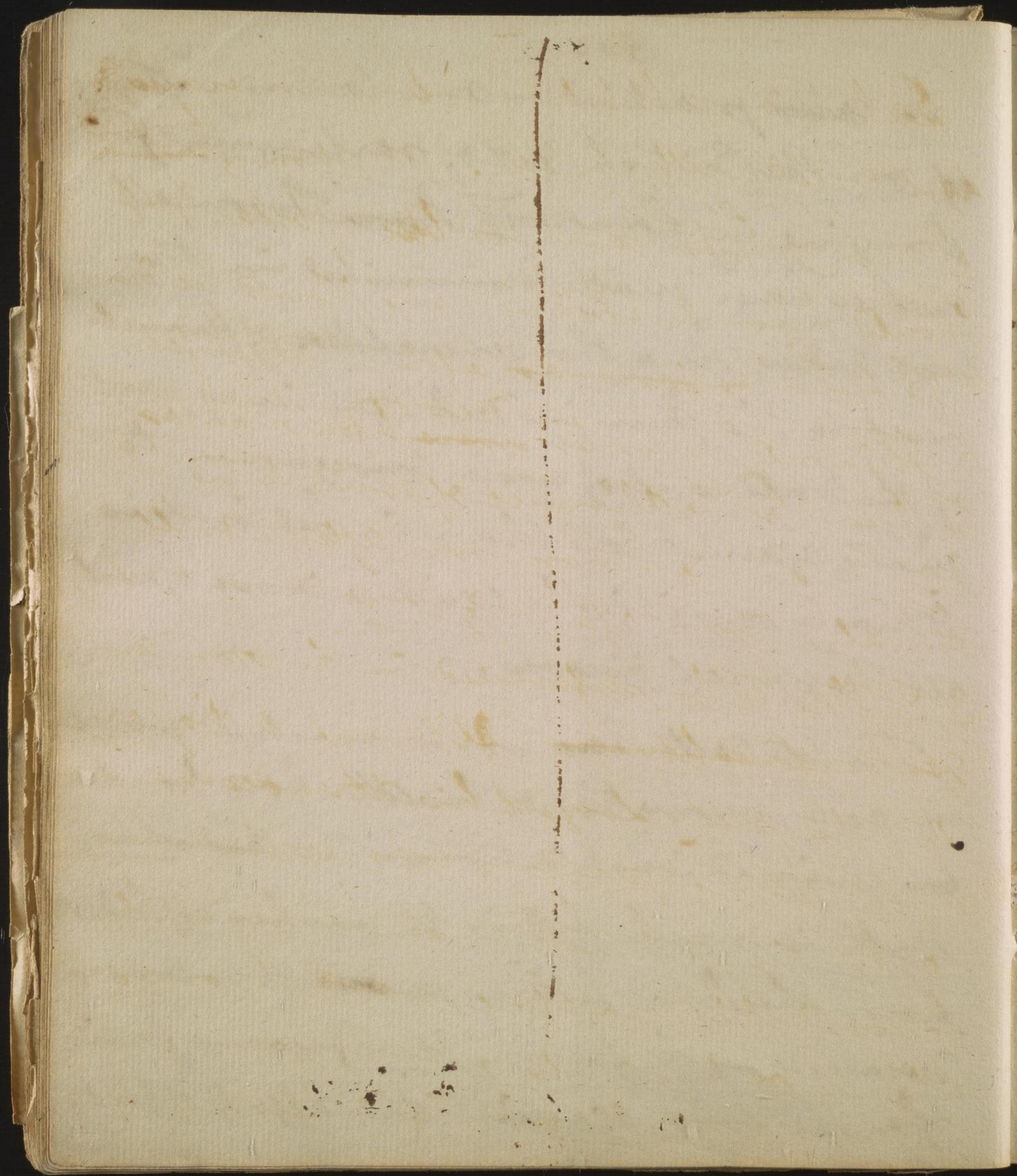
4 The feet should be protected with double care from the cold. Leather is a conductor of heat, for which reason, shoes & and boots should be covered with woollen in very cold weather, & cork soals should protect the feet from ~~test~~ the effects of wet weather.

5 woollen cloathing has been found to be most healthy when worn next to the skin. Linnen & cotton may be worn above it. The cause - of what

v In Great Britain there is a law com-  
-pelling every person who dies <sup>to</sup> be buried  
there in flannel. It would be much  
wiser to compel the living to wear  
flannel, and to bury them dead in linens.

is called practised in our Country. Owing  
of our the British Act of parliament for  
burying in flannel. Diseases Tropical  
diseases have greatly diminished in the  
West Indies, since the general use of flannel  
next to the skin in dress - for in no part  
of the world is it of more consequence to  
guard against cold than in hot countries.  
Doubtless it is the exciting cause of nearly  
all tropical diseases. —

The Cold Bath was formerly in general  
use as a preservative of health. It is too violent  
for civilized constitutions. The Warm  
Bath is much better. It washes off poisons  
from the skin, & thus prevents cutaneous  
diseases & even fevers. It moreover fortifies  
the body against the effects of heat.



Labor or abhstribute for it in exercise  
 are necessary to health. The following <sup>things</sup> should be attended to in the use of both. 1 It  
 should never be excessive, and should be dis-  
 continued from ~~as soon as~~ before it induces fatigue.  
 2 It should never be <sup>undertaken</sup> before breakfast,  
 or before taking aliment of some kind in  
 the morning - nor soon after a full  
 meal - nor after eight.  
 3 It should be performed in the open air,  
~~Its confinement~~ <sup>"vitam sub dis<sup>st</sup> agat"</sup>  
 said the poet. Longest lived tradesmen  
 in Philadelphia are carpenters who work in the  
 open air. Perspiration is increased by  
 labor & this in a close room becomes  
 a cause of weakness or disease. -  
 Every part of the body should be exercised,

5 ~~feet~~ long fibre men & sailors suffer least from labor when they perform it with their shirts off <sup>in hot weather</sup> & it favours the escape of perspiration sweat and thus cools the body.

The kinds of exercise most commonly resorted to for the preservation of health are walking and riding either in a carriage or horseback. The latter should be preferred. To enjoy the benefit of this exercise constantly it will be necessary to attend to the health of the noble animal to which whose strength & gentleness we are indebted for it. For this purpose I shall deliver a few directions for the management of a horse that is used for pleasure or business.

— These directions will I hope be useful. They will serve to illustrate some of our physiological principles; — they will enable

especially the <sup>804</sup> sun which has a great  
influence on the breast. ✓

The <sup>natural</sup> functions of the mind require exercise  
to keep them in health. They impart health  
otherwise to the body. Hence it has been said  
Athlons never have been often too long  
lived than other people under equal circum-  
stances. Study to be healthy should in the  
1 plan be alternated with labor ~~and~~ exercise.  
2 ~~It should be~~ and society. 2 The objects of its  
should be occasionally varied. 3 ~~It should~~  
be ~~as~~ the morning hours are most  
favorable to it. 4 It should be avoided  
after a full meal, and after ~~10 o'clock~~  
~~at night~~, Gibbons' practice.  
The system becomes ~~more~~ <sup>when practicable</sup>  
after night, & is overstimulated by study.

To this head belongs the government  
of the passions. Health & long life depend  
greatly upon their being constantly under  
the influence of reason & Religion.

~~deserves him to~~  
= to procure the best whom you ~~and~~  
who is to convey health & prolong the  
life of the ~~best~~ whom ~~that~~ is without  
whom you will be unable to exercise  
your profession, and lastly ~~they will be~~  
~~enable you to be useful to your~~  
~~country~~ a public expression of our  
gratitude to ~~and~~ an animal to  
whom ~~the world~~ <sup>the one</sup> ~~is~~ <sup>peculiarly</sup> ~~such~~ ~~greater~~  
Obligations. The dispositions I shall

~~I have said~~ ~~my own~~ ~~Cedars~~  
Oliver are derived from, observations  
and from the friends & masters

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but if necessity imposes study after night, let it never be in a small & close room. the air from Candles & lamps is rendered unhealthy, and seldom fails of inducing disease. ✓

Sleeps to be healthy should never exceed ~~7~~  
& hours. Many men have lived long, & en-  
joyed good health on much less. Early rising  
and longevity have generally been connected.  
Lord Mansfield's remark. ~~It~~ The in-  
-tervals between morning & evening is too long  
for old people to bear an erect, or even  
sitting posture, ~~with~~ & still less study, or business  
without a nap in the middle of the day.  
It ~~should~~ be taken after a full meal only  
in a chair with the head erect. the collar  
and tight ligatures should be removed before  
sleep in the night daytime, for the muscles  
need exercise. Back - on sides alto-  
gether.

whose employments gave them the  
best opportunities of acquiring this  
kind of knowledge. —

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Sleep

✓ It should be on matrass in summer & feather bed in winter. Large beds best in both seasons. <sup>coolest</sup> warmest in summer & warmest in winter. Scatter or cide down coverings to be prefer'd to Blankets in winter. Dafford <sup>more</sup> warmth w<sup>th</sup> less weight, and they are particularly useful to invalids, especially to those <sup>whose</sup> respiration patients.

swell in sleep, and thence give pain, or create  
 obstructions. ~~The feet should be placed in a~~  
 The feet should be placed horizontally when  
 sleep is taken in a sitting posture, or they  
 will soon become ~~un~~obnoxious. Often the  
 cause of Drowsiness in old people. ~~It is~~ It is  
~~un~~unhealthy to sleep soon after a  
 hearty Supper. Two or three hours at least  
 should pass away before bed time. See the  
 effects of the contrary practice in Shillad<sup>2</sup> in  
 and: Eng: vol 4: 2 <sup>✓</sup> I cannot dismiss  
 the subject of Sleep, without taking notice of  
 an opinion held by the late Mr Condorcet  
 upon this it. He supposed it to be disease,  
 and in that philosophy would one day  
~~teach us~~ ~~us~~ ~~us~~ cure it, and enable  
 us to live without it. This is ~~far~~

understanding  
✓ the moral faculty to ~~its house~~ <sup>elevated &</sup> this  
premises seat in the mind, and thus  
prevents disease and vice. But for how  
I hope we <sup>will</sup> be the most miserable beings  
in the world" says Gant.

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from being true, that Sleep is a remedy  
for the predisposition to disease. It equal-  
~~obviates~~ removes debility ~~it~~ equalises ex-  
- citement, and ~~this prevents disease of~~  
~~the~~ ~~convinced~~ ~~and~~ ~~anxio~~  
~~distraught~~ ~~body~~ & ~~Shakespear~~ were  
much better philosophers than Cordwain  
upon this subject. — " ~~It is the~~  
~~conduct~~ of the former after enumerating  
its benefits to the body & mind ~~conclusion~~  
pronounces a blessing upon the man that  
first invented it." The words of the British  
poet are still more to our purpose.

" Sleeps, that knits up the ravell'd sleeve of  
care.

" ~~This~~ ~~restoration~~ — sore labour's bath.

" Balm of hurt minds, great nature's second  
course ~~return to~~ ~~off~~ chief nourisher, in life's - feast. —

VI In spite of all the advantages we derive from regularity in Diet - Drinks <sup>advice</sup> Sleep - exercise - Study &c - the remark of Celsus is strictly true - that is - "to avoid scarce habits of any kind": In our intercourse with the world in the ordinary ~~to~~ business of life, we are often obliged to depart from the regularity & order of our own fire sides. ~~where~~ Now when we do - we run the risk of contracting a disease. Hence it will be useful now and then to break through a good habit - to prevent our suffering from the <sup>unavoidable</sup> ~~travelling~~ <sup>&</sup> gripes of it in ~~less~~ travelling or in company. I have known men to suffer very much from cutting a spryer,

I shall <sup>conclude this</sup> ~~nowadays at this~~ subject by  
~~make~~ a few  
Remarks, each of <sup>which</sup> have been the  
result of my own Observations. V

2 Longevity is to I have observed longevity to  
be hereditary. no so long lived ancestors have  
long lived children often (sister's partibus)  
than persons who do not attain to a great  
age.

3 I have observed that health & longevity  
are very much connected w: temperance  
in every thing or upon a due regard to  
diet - dress &c in early life. <sup>It is in</sup> The ~~old~~ <sup>old</sup>  
middle life we usually dissipate by sins &  
& on death, the follies ~~of~~ <sup>of</sup> our youth.

The Spanish proverb is a truly wise.

from drinking tea, from ~~driving~~<sup>or</sup> sitting up an hour or two later than usual, that would not <sup>have</sup> been in the least inconvenienced by any of them, had they ever <sup>conformed to</sup> ~~indeed adopted~~ into those acts in their own family. — However much Invalids ~~often~~ require strictness in their habits — even in good health ~~often~~ become offensive by them, and when they are compelled by accident or necessity to depart from them — often contract thereby lasting diseases.

It to forbid, occasional <sup>moderate</sup> ~~excessive~~ indulgence at the festive board. The late D<sup>r</sup> Cleggorn belonged to a Club in Dublin that met every fortnight at which he always drank a glass or two of wine extraordinary. The day afterwards he enjoyed

"If we wish to be young when you  
are old, be ~~old~~<sup>—</sup> that is ~~un~~prudent,  
- ~~wise & frugal of your health~~ when  
you are young." Economy <sup>in</sup> youth  
expenditure of strength, has the same  
influence upon health in rendering old  
age comfortable, that Economy in  
the expenditure of money, has in early  
life in rendering old age wealthy, &  
independent. This remark is not intended<sup>v</sup>

48 I have never known an instance  
of old age where persons have been much  
afflicted with stomach complaints;  
The remark is connected with the foregoing,  
for intemperance in eating whe-  
ther

annual health & spirits - drawn forth <sup>from</sup> by the latent ~~for~~ resources of his constitution. A fit of sickness often has the same effect in bringing forth latent strength, others prolonging life. I have seen old age protracted by it <sup>for</sup> many years, for few men die of exhausted strength -.

✓ ~~to~~ the body what the Conscience is  
to the mind. No man ever ~~did violence~~<sup>offended</sup>  
to it ~~for~~ <sup>any</sup> for any length of time  
with impunity. It is the Conscience of  
the body, ~~and~~ Its dictates should therefore  
be ~~listened to &~~ obeyed with as much  
~~attention &~~ obsequiousness, as we are  
taught to obey the dictates of Conscience  
in procuring preserving the moral  
health & happiness of our minds.

Return to 0793 -

its relate to quantity, or improper food  
or drinks - also <sup>to</sup> ~~study~~ <sup>paper</sup> off the mind  
nily upon the stomach. If you wish therefore  
to enjoy health & long life, ~~be~~ <sup>to</sup> avoid  
offending your stomach <sup>by</sup> ~~as~~ <sup>Putting</sup> this regulator  
out of order.

of the animal machine, I mean with  
your family - quarrel with your neighbours - nay with  
the whole world; ~~but~~ <sup>rather</sup> ~~as~~ <sup>This</sup>  
quarrel  
than with your stomachs. - ~~they~~ <sup>are</sup>  
Retracted 0793.

1810. finished Phisology Decr. 3.<sup>rd</sup>



